

Patent Application
Docket No. 34645-00525USPT
Ericsson No. P13989-US2

In the Claims

Claims 1, 8, 11, 16 and 21-22 have been amended and Claims 23-27 have been added as follows:

1. (Currently Amended) A communication entity for facilitating compressed message communication, said communication entity comprising:
 - a context table containing context information associated with at least one communication message;
 - a compressor, in communication with said context table, said compressor using said context information to compress at least one transmitted communication message; and
 - a decompressor, in communication with said context table, said decompressor using said context information to decompress at least one received communication message; and
 - said compressor and said decompressor both share said context table and both update said context table using context information within said at least one transmitted communication message and said at least one received communication message.
2. (Original) The communication entity of claim 1, wherein said context information comprises at least a portion of at least one information field of said at least one communication message.
3. (Original) The communication entity of claim 2, wherein said at least a portion of said at least one information field comprises at least one header field.
4. (Original) The communication entity of claim 3, wherein said at least one header field comprises at least one Internet Protocol header field.
5. (Original) The communication entity of claim 1, wherein said context information comprises a dictionary.
6. (Original) The communication entity of claim 1, wherein said at least one transmitted communication message is transmitted using a first communication channel and said at least one received communication message is received over a second communication channel, said first communication channel and said second communication channel comprising a channel pair.
7. (Original) The communication entity of claim 1, wherein said communication entity comprises a mobile terminal.

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8. (Currently Amended) The communication entity of claim 1, wherein said communication entity comprises a ~~base station~~ communication node.

9. (Original) The communication entity of claim 1, wherein said at least one transmitted communication message is compressed using a first context, and said at least one received communication message is decompressed using a second context.

10. (Original) The communication entity of claim 9, wherein said first context is substantially the same as said second context.

11. (Currently Amended) A method for enabling a communication entity to facilitate ~~facilitating~~ compressed message communication, said method comprising the steps of:

maintaining a context table containing context information associated with at least one communication message;

compressing at least one transmitted communication message using said context information; and
decompressing at least one received communication message using said context information; and
updating said context table using context information in said at least one transmitted communication message and said at least one received communication message.

12. (Original) The method of claim 11, wherein said context information comprises at least one information field of said at least one communication message.

13. (Original) The method of claim 12, wherein said at least one information field comprises at least one header field.

14. (Original) The method of claim 13, wherein said at least one header field comprises at least one Internet Protocol header field.

15. (Original) The method of claim 11, wherein said context information comprises a dictionary.

16. (Currently Amended) A method for enabling a communication entity to facilitate facilitating compressed message communication, said method comprising the steps of:

compressing a first communication message having first context information to produce a first compressed message;

storing said first context information in a context table;

transmitting said first compressed message over a first communication channel;

receiving a second compressed message over a second communication channel;

decompressing said second compressed message to produce a second communication message having second context information; and

storing said second context information in said context table, wherein said context table is updated by using said first context information and said second context information respectively associated with said first compressed message and said second compressed message.

17. (Original) The method of claim 16, wherein said first communication channel and said second communication channel comprising a channel pair.

18. (Original) The method of claim 16, wherein at least one of said first context information and said second context information comprises at least one information field of an Internet Protocol.

19. (Original) The method of claim 18, wherein said at least one information field comprises at least one header field.

20. (Original) The method of claim 16, wherein at least one of said first context information and said second context information forms an entry in a dictionary.

21. (Currently Amended) A method for enabling a first communication entity to facilitate multiple facilitating compressed message communication sessions with between a first communication entity and a second communication entity, said method comprising wherein said first communication entity performs the following steps:

maintaining a first context table containing context information associated with at least one communication message;

compressing and transmitting ~~at said first entity,~~ at least a first communication message using the a first context table;

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~~compressing and transmitting, at said first entity, at least a second communication message using the said first context table;~~

~~receiving and decompressing a third communication message using the first context table;~~

~~receiving and decompressing a fourth communication message using the first context table; and~~

~~updating the first context table using context information in the first, second, third and fourth communication messages.~~

~~transmitting to said second entity, by said first entity, said at least a first communication message using a first communication session, said first communication session having associated first context information;~~

~~transmitting to said second entity, by said first entity, said at least a second communication message using a second communication session, said second communication session having associated second context information, said first context information substantially equal to said second context information.~~

22. (Currently Amended) The method of claim 21, ~~said method further comprising wherein said second communication entity performs the following steps:~~

~~maintaining a second context table containing context information associated with the at least one communication message;~~

~~receiving, at said second entity, said at least a and decompressing the first communication message using said first communication session the second context table;~~

~~receiving, at said second entity, said at least a and decompressing the second communication message using said second communication session the second context table;~~

~~compressing and transmitting the third communication message using the second context table;~~

~~compressing and transmitting the fourth communication message using the second context table; and~~

~~updating the second context table using context information in the first, second, third and fourth communication messages.~~

~~decompressing, at said second entity, said at least a first communication message using a second context table;~~

~~decompressing, at said second entity, said at least a second communication message using said second context table;~~

23. (New) The communication entity of claim 1, wherein said context information is used to enable both header compression and signaling compression.

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24. (New) The communication entity of claim 1, wherein said context information comprises a header compression context.

25. (New) The communication entity of claim 1, wherein said context information comprises a signaling compression dictionary.

26. (New) The communication entity of claim 2, wherein said at least one header field comprises a fixed size header field.

27. (New) The communication entity of claim 2, wherein said at least one header field comprises a variable size header field.

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